DAY/NIGHT RIFLESCOPE SYSTEM

ATN 4-12x80 DNS ATN 2-6x65 DNS



user`s guide

AMERICAN TECHNOLOGIES NETWORK CORP.







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FEATURES

4-12X80 DAYTIME SNIPER SCOPE

- Illuminated reticle with 10 position rheostat
- 1000-Yard Bullet drop compensator with interchangeable cams
- 8 Interchangeable Cams
- 40 mm tube for amazing light transmission
- 40 mm Steel rings
- 1000 Yard Range Finder
- 1/8 MOA at 100 Yards
- Proshield and Everlight Lens coatings
- Sun shade

2-6X65 DAYTIME SNIPER SCOPE

- Illuminated reticle with 10 position rheostat
- 500-Yard Bullet drop compensator with interchangeable cams
- 6 Interchangeable Cams
- 42 mm tube for amazing light transmission
- 42 mm Steel rings
- 500 Yard Range Finder
- 1/8 MOA at 100 Yards
- Proshield and Everlight Lens coatings
- Sun shade

NIGHT VISION WEAPON SIGHT

- Hight resolution Gen2+ or Gen3+ Intensifier Tube
- Detachable 450 mW Infrared Illuminator with dedicated windage and elevation adjustment
- Detection Range: 350m
- Recognition Range: 200m
- FOV: 6°-2°(4-12x80) 10°-3°(2-6x65)
- Diopter Adjustment: ± 5
- Power Supply: 3 v lithium
- · Battery Life: 30 hours

APPLICATION

ATN is proud to introduce our unique day/night riflescope systems. This unit starts as a sensational day time scopes. 80mm (!) objective and 40mm(!) tube combined with the best, German quality multicoated glass on the market makes this sight the best light-gathering device for shooting in the world. An array of features that will dazzle any marksmen include parallax-free construction; 4 to12 variable Power Zoom (2 to 6 for 2-6x65), 1000-Yard Bullet drop Compensator with interchangeable cams for eight calibers (500 yards and six calibers for 2-6x65), 1000 Yard Range Finder (500 Yard for 2-6x65) and a super sharp, illuminated reticle with 10 light settings.

Additional features include 1/8 MOA adjustment at 100 yards, 100% weather resistance and Matte Black mil-spec finish with beryllium powder coating.

But wait it gets even better! With a simple twist of the eyepiece you can remove the daytime riflescope eyepiece and replace it with a Night Vision eyepiece converting your scope into a high quality, very accurate night vision weapon sight.

The Night Vision eyepiece utilizes a US Gen.3+ Light Intensifier Tube (same as used in Desert Storm and standard for Navy Seals). Also available US 2nd Gen.+.

This ingenious setup allows the shooter to go from day to night in less then 30 seconds without tools, without changes in eye relief and remain zeroed all around the clock. A separate, removable, most powerful in the world (450mW) long-range Infrared Illuminator is also included to provide the user with total darkness capability. Furthermore the US government just granted ATN with a patent for the feature that prevents Tube burn by the illuminated reticle.

MOUNTING

The 4-12x80 can be mounted utilizing 40mm rings.

The 2-6x65 can be mounted utilizing 42mm rings.

CAUTION: Be sure gun is not loaded. Use safe gun handling procedures at all times.

QQ

FOCUSING

While holding the scope about four inches from your eye, quickly glance through the eyepiece at a featureless, flatly lit bright area such as a wall or the sky.

CAUTION: Viewing the sun can cause serious eye injury, never look at the sun with this product or even the naked eye.

If the reticle is not sharply defined instantly, turn the eyepiece (either direction) a few turns. Quickly glance through the scope again. If the focus has improved, but is still not perfect, continue focusing. If the focus condition became worse, turn it the opposite way.



PRE-ZEROING

Pre-zeroing is recommended and can be done with a scope guide or bore sight. These items have their own instructions.

CAUTION: Be sure gun is not loaded. Use safe gun handling procedures at all times.

ZEROING

CAUTION: All shooting should be done at an approved range or other safe area. Eye and ear protection is recommended.

DANGER

If you used a bore-obstructing device, remove it before proceeding. If the barrel has-been drilled for a mount, check that the screws do not protrude into the bore. Do not fire live or even blank ammunition with an obstructed barrel. An obstruction can cause serious damage to the gun and possible personal injury to yourself and others nearby.

From a steady rest position, fire three rounds at a 100 yard target for 2-6x65 and 200 yard target for 4-12x80. Observe bullet strike on target and adjust windage and elevation screws as needed to correct aim. You will need to remove the dust caps from the top of the windage and elevation adjustments to do this.

NOTE: Each click of adjustment changes bullet strike by the amount shown on the chart below.

WINDAGE / ELEVATION

(inches of movement per click)

When you have finished zeroing, replace windage and elevation dust caps.

50 Yards-1/16"

100 Yards-1/8"

200 Yards-1/4"

300 Yards-3/8"

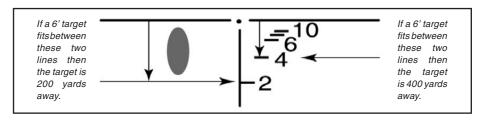
ELECTRONIC RETICLE

Your scope has an Electronic reticle. There are 10 degrees of illumination. The rheostat is the knob located at the back of the scope. It is labeled with numbers OFF - 9. When the rheostat is set at 0 you will see a black etched reticle. The reticle will light up red electronically as you rotate the rheostat through the numbers, 9 being the brightest.



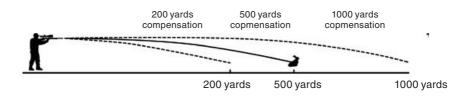
USING THE ATN RANGEFINDER RETICLE

The rangefinder reticle in your riflescope was designed to assist you in determining the range of your target. These distances are based on a 6' target, if a 6' target fits between the numbered baseline (the five short horizontal lines) and the post of the reticle above the baseline determines your distance. If a 6' target fits between the horizontal post of the reticle and 2 the target is 200 yards away. If the same target fits between the 4 and the horizontal post of the reticcle the target is 400 yards away. The same is with the 6 and 10. The target would be either 600,800 or 1000 yards away.



BULLET DROP COMPENSATOR

The 4-12x also comes standard with a 1000 yard bullet drop compensator for the .50BMG round. The 2-6x also comes standard with a 500 yard bullet drop compensator for the .223 round. You should have zeroed your scope in at 100 yards target for 2-6x65 and a 200 yard target for 4-12x80. When shooting at longer ranges the bullet drop compensator can be adjusted for 200, 300, 400, and 500 yards. Pending on the distance click the bullet drop compensator to the appropriate setting. This will automatically adjust your reticle for that particular distance. Your 4-12x also comes with other cams allowing you to change your bullet drop compensator to work with the following categories: .308, 30-. 06, .270, 7 mm Mag, .300 Win Mag. 22-250, .243, .223. The 2-6x65 has the rounds for .223, .308, 30-.06, .270, 7mm MAG, .300 Win Mag.



CHANGING THE BULLET DROP COMPENSATOR



Set the bullet drop compensator to the 100-yards (2-6x65) or 200 yards (4-12x80) range. Then remove the elevation dust cover from the cam. Next you will find three small set screws on the bullet drop compensator right above the yardage numbers. Remove these screws and lift the cam off of the scope. Once you have done this select the desired caliber cam you would like to use and place this cam where you removed the previous one (make sure that a replacement cam is set to the 100-yard range for 2-6x65 and 200 yards for 4-12x80). Then tighten the cam in place by putting the three set screws back. Finally replace the dust cover.

MAINTAINING YOUR RIFLESCOPE

Your riflescope is waterproof and shockproof. However, you should never try to take apart or clean it internally (it will void your warranty). If your scope ever does need repairs or adjustments, it should be returned to ATN's service department. The exposed optical surfaces will perform their best if they are occasionally wiped clean with a lens cloth or with optical quality lens paper like those for eyeglasses or camera lenses. Maintain the metal surfaces of your rifle scope by removing any dirt or sand with a soft brush so as to avoid scratching the finish. Wipe down the scope with a damp cloth and follow with a dry cloth. Finally, going over the tube with a silicone treated cloth will restore luster and protect the scope against corrosion. Be careful not to touch the any of the lenses with the silicone cloth.

THE NIGHT VISION EYEPIECE



The Night Vision eyepiece utilizes a US 2nd or 3rd Gen. Light Intensifying Tube. A separate, removable, most powerful in the world (450mW), long-range Infrared Illuminator is also included to provide the user with total darkness capability.

Furthermore the U.S. government just granted ATM with a patent for the feature that prevents Tube from burning by the illuminated reticle.

REPLACING DAY-VISION EYEPIECE WITH NIGHT-VISION ONE





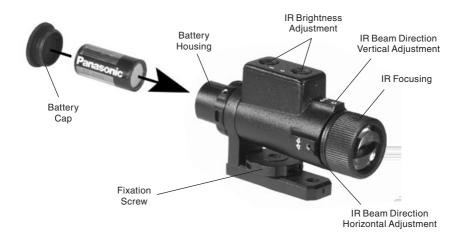
Release detent along arrow "Open" on the sight body, turn it counter clockwise and take it out.

In order to install the night-vision sight align the bayonet groove in the eyepiece body with the pin (or finger) on the interior surface of the sight body (its location is marked with a dot on the body), insert the eyepiece as far as it will go then turn it clockwise. Make sure that the detent has operated and the eyepiece won't rotate or getout. Replace the night-vision with the day-vision one in a similar way.

THE IR ILLUMINATOR

Infra-red (IR) Illuminators are common for night vision technology. The IR light greatly enhances the performance of your day/night system (in night mode), while remaining almost totally invisible to the naked eye. In a dark environment, power up the day/night system (in night mode) and observe a scene with the IR off. Then observe the same scene with the IR on. Note the difference in illumination. It is important to remember that the IR illuminator is simply an infra red light source, and like any light source it may loose its effectiveness over a great distance.

To fix the IR Illuminator to the riflescope screw the fixation screw on the IR into the thread on the night-vision eyepiece body.



The IR illuminator control buttons are located on its side.

To switch the Digital IR illuminator on/off press "+" and "-" buttons simultaneously. When the IR illuminator is switched on you can see the green LED lit.

By pushing the buttons "+" and "-" you may adjust the IR brightness.

The IR beam is focusable to change the field of coverage. To change the beam width slightly turn the IR lens.

You may notice that beam of IR illuminator might not shine directly in the middle of your viewing image. You can change the direction of the IR beam slightly in horizontal and vertical directions with rotation of small screws on the side of IR.



You can also change the position of the IR control panel fitting your needs. Undoing the small set screw on back of IR. Then use the included wrench to loosen back ring, Move the IR to its desired position/angle, retighten ring with wrench then retighten set screw.

PREPARING FOR OPERATION

Daytime Sniper Scope:

- Install the battery for illuminated reticle into its housing.
- Adjust the magnification by rotating of magnification ring near eyepiece.
- Observe the scene and adjust the eyepiece for optimal clarity. Bring into focus by rotating the focusing ring of the eyepiece.
- Turn on the reticle illumination if you need.
- Adjust the reticle brightness by rotating of the 10-position rheostat.

Night Vision Weapon Sight:

- Install the batteries in the seats of the night-vision eyepiece and IR illuminator by the polarity marks on the devices bodies.
- Turn on the night-vision eye-piece by means of the switch located on its body.
- Observe the scene and adjust the eyepiece for optimal clarity. Bring into focus by rotating the focusing ring of the eyepiece.
- Turn on the IR illuminator.
- · Adjust IR brightness.
- Focus the illuminator by rotating its lens..

BATTERIES

The batteries (included with the unit) are coin style 3 volt lithium batteries (CR2032) for Electronic Reticle and two 3 volt lithium batteries (CR123A) for Night Vision Eyepiece and IR Illuminator.

VERY IMPORTANT!

Your Day/Night System comes with a patented technology that puts the lit reticle of the riflescope into an infrared mode which helps prevent tube burn. However, even in this mode if the brightness of the reticle is turned up too high you can run the risk of burning the reticle pattern into your night vision light intensifier tube.

This damage is not covered by the warranty!

When setting the reticle brightness of your scope in the Night Vision Mode please set the brightness at the lowest visible setting that you are comfortable. This will prolong the life of the Light Intensifier Tube. We suggest turning the reticle brightness to the (1) selection then slowly increase it until you clearly see the reticle. Do not overly increase the reticle brightness.

WARNINGS AND CAUTIONS

- ALWAYS REMEMBER TO TURN OFF THE ATN 4-12x80 DAY/NIGHT RIFLESCOPE WHEN IT IS NOT IN USE. IF YOU DO NOT PLAN ON USING RIFLESCOPE FOR A PERIOD OF MORE THAN 10 DAYS, YOU SHOULD REMOVE THE BATTERIES.
- Avoid touching lenses. If fingerprints or traces of dirt or dust appear, clean surface with photographic lens cleaning tissue.
- Keep lens cap/daylight filter on when not in use.
- · Avoid contact with dust, steam, and gas.
- •THE DAY/NIGHT RIFLESCOPE is friendly to the user or environment.
- Do not disassemble except to clean the front lens and the eyepiece: it will void your warranty.
- Evaluate the scopes function by looking through it in a lit environment with the daylight filter lens cap on. Never use in daylight without the daylight filter lens cap on. Do not surpass ten minutes of testing.
- Never point DAY/NIGHT RIFLESCOPE with night vision eyepiece at a bright light source. It the scope shuts off automatically after directing it at a bright light source, turn the unit off and wait for 1 2 minutes before turning the unit back on.
- Adverse atmospheric conditions such as fog, smog, or haze and a lack of ambient light (moon or starlight) may diminish the effective viewing distance. All technical data for this unit was compiled in a controlled environment, therefore it may be difficult to recreate the conditions this scope was tested in.

TROUBLE SHOOTING

- Q: Flashes, flickers, or clicking occur while operating
- **S:** If it occurs within the first five minutes of inserting new batteries, it is normal and the device will resume normal operation soon thereafter. If it occurs for more than 10 minutes, contact your dealer or other authorized service representative for service instructions.
- Q: Dark spots on screen.
- **S:** These are cosmetic blemishes in the intensifier tube. They are a by-product of the process of manufacturing night vision tubes. They will not impede your viewing ability.
- Q: Image not clear.
- S: Adjust focus ring. If problem persists, increase viewing distance
- **Q:** Fixed-pattern noise in a honeycomb shape.
- **S:** Usually a cosmetic blemish characterized by a faint honeycomb-type pattern. This usually occurs when viewing very bright lights. Adjust the potentiometer, to reduce brightness.
- Q: A pattern of dark thin lines which look like chicken wire.
- **S:** Turn on illuminator, if purchased. If illuminator doesn't brighten image, replace batteries. If problem persists, contact ATN for service instructions.

SPECIFICATION

	<u>4-12x80</u>	<u>2-6x65</u>
DAYTIME		
Magnification	4-12x	2-6x
Objective diameter	80mm	65 mm
Mounting Rings	40mm	42 mm
Bullet drop calibers	50 BMG, .308, 3006, .270, 7 mm Mag, .300 Win Mag., 22- 250, .223, .243	.223, .308, 30 06, .270, 7 mm Mag, .300 Win Mag
Field of Viev	6° - 2°	10° - 3°
Eye Relief	85 mm	80 mm
Rangefinding	1000 m/yard	500 m/yard
Illuminated reticle	Yes	Yes
Power source	3-volt (CR2032)	3-volt (CR2032)
Battery life	100 hours	100 hours
Sun shade	Yes	Yes
Recomended use	Ver	Tac, WFB
Adjustment windage and elevation	1/8 MOA at 100 m/yards	1/8 MOA at 100 m/yards
Weight	1.8 kg / 4.2 lbs	1.45kg / 3.2 lbs
Dimensions	400 x 97 x 88 mm / 15" x 4" x 4"	268 x 75 x 72 mm / 11" X 3" x 3"
NIGHT VISION		
Total Darkness Technology	Standard	Standard
Intensifier Tube	2nd or 3rd Gen.	2nd or 3rd Gen.
Detection Range	250 / 300 m/y	250 / 300 m/y
Recognition Range	175 / 225 m/y	175 / 225 m/y
Field of View	6° - 2°	10° - 3°
Diopter Adjustment	±5	±4
Resolution	Varies according to tube & Generation	Varies according to tube & Generation
Range of Focus	75' to infinity	75' to infinity
Reticle	Green on green rangefinder	Green on green rangefinder
Controls	Digital	Digital
Power Supply	3 volt (CR123A)	3 volt (CR123A)
Battery Life	10-20 hours	10-20 hours
Dimensions	442 x 125 x 88 mm / 17" x 5" x 4"	325 x 100 x 75 mm / 13" x 4" x 3"
Operating Temperatures	-40° F to +110°F	-40° F to +110°F
Weight	1.9kg / 4.3 lbs	1.5kg / 3.3 lbs

2 YEAR PRODUCT WARRANTY

This product is guaranteed to be free from manufacturing defects in material and workmanship under normal use for a period of 2 (two) years from the date of purchase. In the event a defect that is covered by the foregoing warranty occurs during the applicable period stated above, ATN, at its option, will either repair or replace the product, and such action on the part of ATM shall be the full extent of ATN's liability, and the Customer's sole and exclusive remedy. This warranty does not cover a product (a) used in other than its normal and customary manner; (b) subjected to misuse; (c) subjected to alterations, modifications or repairs by the Customer of by any party other than ATN without prior written consent of ATN; (d) special order or "close-out" merchandise or merchandise sold "as-is" by either ATN or the ATN dealer; or (e) merchandise that has been discontinued by the manufacturer and either parts or replacement units are not available due to reasons beyond the control of ATN. ATN shall not be responsible for any defects or damage that in ATN's opinion is a result from the mishandling, abuse, misuse, improper storage or improper operation, including use in conjunction with equipment which is electrically or mechanically incompatible with or of inferior quality to the product, as well as failure to maintain the environmental conditions specified by the manufacturer CUSTOMER IS HEREBY NOTIFIED THAT OPERATION OF THE EQUIPMENT DURING DAYLIGHT HOURS OR UNDER ANY EXCESSIVE LIGHT CONDITIONS MAY PERMA-NENTLY DAMAGE THE INTERNAL COMPONENTS OF THE UNIT AND SAID DAMAGE WILL NOT BE COVERED UNDER THIS WARRANTY. This warranty is extended only to the original purchaser. Any breach of this warranty shall be waived unless the customer notifies ATN at the address noted below within the applicable warranty period.

The customer understands and agrees that except for the foregoing warranty, no other warranties written or oral, statutory, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, shall apply to the product. All such implied warranties are hereby and expressly disclaimed.

LIMITATION OF LIABILITY

ATN will not be liable for any claims, actions, suits, proceedings, costs, expenses, damages or liabilities arising out of the use of this product. Operation and use of the product are the sole responsibility of the Customer. ATN's sole undertaking is limited to providing the products and services outlined herein in accordance with the terms and conditions of this Agreement. The provision of products sold and services performed by ATN to the Customer shall not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of or creating any obligation toward any third party of legal entity outside ATN and the Customer; ATN's obligations under this Agreement extend solely to the Customer. ATN's liability hereunder for damages, regardless of the form or action, shall not exceed the fees or other charges paid to ATN by the customer or customer's dealer. ATN shall not, in any event, be liable for special, indirect, incidental, or consequential damages, including, but not limited to, lost income, lost revenue, or lost profit, whether such damages were foreseeable or not at the time of purchase, and whether or not such damages arise out of a breach of warranty, a breach of agreement, negligence, strict liability or any other theory of liability.

PRODUCT WARRANTY REGISTRATION

In order to validate the warranty on your product, ATN must receive a completed Product Warranty Registration Card for each unit. Please complete the form below and immediately mail it to our Service Center: ATN Corporation, 20 South Linden Ave., Suite 1 B, South San Francisco CA 94080. Products qualifying for warranty repair will be either repaired or replaced within 10 business days of receipt of merchandise unless the customer is notified otherwise.

OBTAINING WARRANTY SERVICE

To obtain warranty service on your unit, take or send the product, postage paid, with a copy of your sales receipt to our service center, ATN Corporation at the address noted above. All merchandise must be fully insured with the correct postage; ATN will not be responsible for improper postage, or, missing or damaged merchandise during shipment.



For customer service and technical support, please contact American Technologies Network Corp.

North American Office

20 S. Linden Ave. Suite 1B, South San Francisco, CA 94080 phone: 800-910-2862, 650-875-0130; fax: 650-875-0129

European Office

phone: 44(0)870-0111286, fax: 44(0) 845-3349142

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